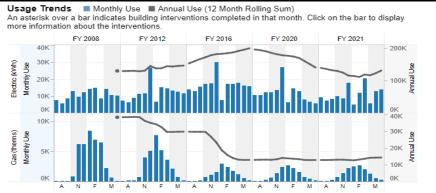


Building Dashboard

Photo by Paul Franz

Four Corners Elementary			21 Ferrante Ave				
Building Data							
	Structural Details	HVAC		Condition	Appliances/equipment		
Year Built	1955; additional wings added in 1991	Heating System	Gas-fired hot water boiler (2011) Mini-split in mushroom (2010), HV units in gym (1991), New	Excellent	Interior Lighting	all upgraded to LEDs 2018	
Square footage	37,439		Rooftop Units (2) 2019				
Envelope	Concrete foundation walls, 10" brick with furred and plaster interior surface, mushroom has metal exterior	Heat Distribution	Two-pipe system to unit ventilators and convectors	Good	Exterior Lighting	LED floodlights - parking/ wallpacks not LED	
Roof	Gym, classrooms have flat roof, single-ply membrane, rigid insulation, backer board, metal deck. Office, storage areas have rolled roofing on a flat wood deck with 3-1/2" of insulation. Mushroom section has pitched metal roof w/insulation.	Ventilation	Ventilators in mushroom ceiling. Exhaust fans ducted to classrooms	Good	Vending Machines	None	
Windows	Double pane upgrades in 2011	Air Conditioning	Mini-split in mushroom, 6 window air conditioners	Excellent			
Insulation	Rigid insulation in flat roof, also roof insulation in mushroom section	Hot Water Heater	Gas-fired - 75 gal	Excellent			
Building Summary	The gymnasium, hall and toilet addition w			•	• • • • • • • • • • • • • • • • • • • •	led on the east	

Energy Profile - FY2021				
Energy Usage				
Electric (kWh)	Heat (therms)	EUI (kBTU/sqft)		
130,476	14,237	50		
EUI <u><</u> 35 Meets Zero Energy Goal	EUI = 35-50 Efficient	EUI >50 Priority to Improve		
Annual Energy Cost				
Electric	Heat	Total		
\$23,875	\$11,743	\$35,618		
Berkshire Gas Rate C	<u>G-42</u>			
Electric Service Rate	<u>G2</u>			
Average Monthly De	32.6			



Completed Work					
Fiscal Year	Project	Project Cost	Grants/Rebates	Life Expectancy	Warranty
2011	Windows, boiler, roof repairs/upgrades (MSBA)	\$1,617,964	\$1,264,356	varies	varies
2018	Rooftop unit replacement	\$75,000	\$40,000	20+ years	5 years
2019	LED lighting upgrade - on bill financed	\$20,148	\$9,532	20+ years	5 years

Audits/Assessments			
Fiscal Year	Type Findings		
2009	Siemens Whole building assessment	Report available upon request	
2016	Insulation assessment CET	difficult to access ceiling. Leaks should be fixed, then insulation to be replaced	
2019	Rooftop Solar Assessment (Solect Energy)	Roof can support a 135 kW solar array	